

HYDROGEN RECOVERY & UTILIZATION SYSTEM



Client: HTEC Hydrogen Technology & Energy Corporation

Description: Definition Level Study of a \$20,000,000 integrated waste hydrogen gas collection, purification, compression, storage and distribution facility. Flow up to 5,500,000 scfd of hydrogen need to be collected from 2 separate sources, dehydrated, scrubbed of contaminants using SDE's proprietary ScrubTech™ technology and ultimately purified using Pressure Swing Adsorption Technology. Purified gas was compressed to 5000 psig using a combination of reciprocating and diaphragm compressors and stored in carbon fiber-reinforced aluminum storage tanks. Overflow gas is piped to combustion in a boiler.

Scope: SDE provided full project scope definition, project management, engineering, HAZOP and instrumentation.